**COMBINED DECLARATION / POWER OF ATTORNEY**

AS BELOW NAMED INVENTOR, I HEREBY DECLARE THAT: This Declaration is of the following type:

- ☒ Original                      ☐ Supplemental                      ☐ Continuation-In-Part                      ☐ Divisional  
☐ Continuation                      ☐ National Stage of PCT

My residence, post office address and citizenship are as stated below next to my name: I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention **INTERFERENCE AND NOISE ESTIMATION IN AN OFDM SYSTEM** the specification of which:

- ☐ is attached hereto.  
☒ was filed on March 24, 2004 as Serial No. 10/809,538.  
☐ was amended on (if applicable).  
☐ was described and claimed in PCT International Application No. filed on and as amended under PCT Article 19 on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

			Priority Claimed	
(Country)	(Application No.)	(Day/Month/Year/Filed)	(Yes)	(No)

I hereby claim the benefit under Title 35 USC 119(e) of any United States provisional application(s) listed below:


60/470,724	May 14, 2003
(Serial No.)	(Filing Date)

I hereby claim the benefit under Title 35 USC 120 of the United States application(s) listed below, and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 USC 112, I acknowledge the duty to disclose material information as defined in Title 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

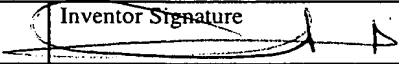
(Serial No.)	(Filing Date)	(Status)
--------------	---------------	----------

I hereby appoint the attorneys and/or agents associated with Customer No. 23696 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all telephone calls to Philip R. Wadsworth at (858) 651-4404 and address all correspondence to: QUALCOMM Incorporated, Patent Department, 5775 Morehouse Drive, San Diego, California 92121-1714.

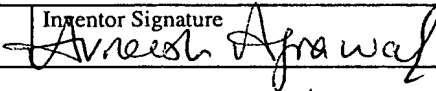
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Joint Inventor Arak Sutivong	Inventor Signature 	Date June 18, 2004
Residence 6586 Ambrosia Drive		Citizenship Thailand
Post Office Address San Diego, California		
Full Name of Second or Joint Inventor Ayman Faway Naguib	Inventor Signature	Date June , 2004
Residence 991 Cranberry Driver		Citizenship Egypt
Post Office Address Cupertino, California		
Full Name of Third or Joint Inventor Avneesh Agrawal	Inventor Signature	Date June , 2004
Residence 7891 Doug Hill		Citizenship India
Post Office Address San Diego, California		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Joint Inventor <b>Ayman Fawzy Naguib</b>		Inventor Signature 	Date <b>30 June , 2004</b>
Residence <b>991 Cranberry Drive</b>		Citizenship <b>Egypt</b>	
Post Office Address <b>Cupertino, California</b>			
Full Name of Second or Joint Inventor <b>Avneesh Agrawal</b>		Inventor Signature	Date <b>June , 2004</b>
Residence <b>7891 Doug Hill</b>		Citizenship <b>India</b>	
Post Office Address <b>San Diego, California</b>			
Full Name of Third or Joint Inventor <b>Arak Sutivong</b>		Inventor Signature	Date <b>June , 2004</b>
Residence <b>6586 Ambrosia Drive</b>		Citizenship <b>Thailand</b>	
Post Office Address <b>San Diego, California</b>			

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Joint Inventor Arak Sutivong	Inventor Signature	Date June , 2004
Residence 6586 Ambrosia Drive	Citizenship Thailand	
Post Office Address San Diego, California		
Full Name of Second or Joint Inventor Ayman Faway Naguib	Inventor Signature	Date June , 2004
Residence 991 Cranberry Driver	Citizenship Egypt	
Post Office Address Cupertino, California		
Full Name of Third or Joint Inventor Avneesh Agrawal	Inventor Signature 	Date 17 <sup>th</sup> June , 2004
Residence 7891 Doug Hill	Citizenship India	
Post Office Address San Diego, California		